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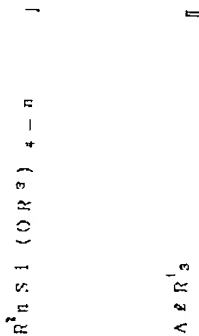
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## (54) PREPARATION OF CATALYST FOR POLYMERIZATION OF ALPHA-OLEFIN

### (57)Abstract:

PURPOSE: To obtain the titled catalyst of a high polymerization activity, by contacting a specified solid catalyst component with an organoaluminum compound and a silicon compound.

CONSTITUTION: A solid reaction product is obtained by reacting a titanium tetrahalide (e.g.,  $TiCl_4$ ) and an aromatic polycarboxylic acid ester (e.g., monomethyl phthalate) with a carrier obtained by reacting a Grignard compound (e.g., methylmagnesium chloride) with a reaction product between a magnesium halide (e.g.,  $AlCl_3$ ) and a silicon compound of formula I (wherein  $R_2W_3$  are each a hydrocarbon group). The obtained solid is reacted with a titanium tetrahalide to obtain a solid catalyst component (A). Component A is contacted with an organoaluminum compound (B) of formula II (wherein  $R_1$  is a  $1W_8C$  alkyl) and a silicon compound (C) of formula I at  $20^\circ C$  or below for 5secW60min in the presence (absence) of an inert organic solvent.



### LEGAL STATUS

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